

CHAPTER 4 – CONSTRUCTION INSPECTION PROCEDURES

4.1 GENERAL REQUIREMENTS

The City Engineer or his authorized representative shall at all times have the right to inspect the work and materials. The manufacturer shall furnish the City Engineer reasonable facility for obtaining such information as he may desire regarding the progress and manner of the work and the character and quality of materials used.

All piping, fittings, valves and appurtenances shall be inspected for damage or defects in material and workmanship. All damaged or defective materials shall be rejected and removed from the job site.

Any damage to the system during testing or construction shall be reported to the Inspector. Appropriate methods of repair must be approved and re-inspected.

Repair of Developer's system for damage caused by others during construction shall be done under Inspector's direction by a qualified pipeline contractor only.

Repairs on any District's existing public potable or recycled water systems will be done by or at the direction of District and the Inspector. All expenses will be Contractor's and/or Developer's responsibility.

All work performed without the Inspector's verification, will be subject to rejection until plan and specification conformance can be verified by the Inspector.

All work shall be subject to inspection by the Inspector and shall be left open and uncovered until approved by Inspector. Inspection hours 7:00 a.m. to 3:30 p.m., Monday through Friday (excepting City/District holidays).

The Contractor shall not proceed with any subsequent phase of work until the previous phase has been inspected and approved by the Inspector.

4.2 INSPECTION PROCEDURES

4.2.1 Field Inspection

During construction, the City's Inspector will inspect the following phases:

- A. All materials delivered to the site bolting of flanges, coatings and lining and fitting, welds and wrapping, must be inspected prior to installation.
- B. Check construction stakeout by surveyor to ensure compliances with improvement plans.
- C. Trench excavation, bedding and excavation for thrust blocks.
- D. Placement of pipe, fittings, and structures; (the phase shall be inspected prior to backfill.)

- E. Pouring all concrete thrust blocks; (Inspector must be present during pour.)
- F. Placing and compacting the pipe zone backfill and placement of warning tape.
- G. Backfilling balance of trench to grade. (Compaction test to be performed by governing agency road departments in public right-of-way and by private soils consultant retained by the Developer and acceptable to the District in private streets and easements. Copies of test results shall be given to the Inspector by the Developer for approval before final acceptance of the work.
- H. All main line and fire hydrant valves shall be maintained so as to be accessible during tract development, and all valve stem tops having over 48 inches of cover will require an extension.
- I. Pressure testing and chlorination of all mains, services and appurtenances.
- J. Repaving trench cuts (if necessary).
- K. Raising valve box covers to finish grade and painting.
- L. Installation of service lines and meter boxes.

4.2.2 Interpretation of Specifications and Detail Drawings

Figured dimensions of the drawings shall govern, but work not dimensioned shall be as directed. Work not particularly shown or specified shall be the same as similar parts that are shown or specified or as directed. Full-size details shall take precedence over scale drawings as to shape and details of construction. Specifications shall govern as to material. Scale drawings, full-size details, and specifications are intended to be fully cooperative and to agree; but should any discrepancy or apparent difference occur between plans and specifications, or should errors occur in projects being constructed by others affecting the work, and the Contractor proceed with the work affected without instruction from the District, he shall be fully responsible for any resultant damage or defect.

4.2.3 Revision of District Approved Plans

Contractor/Developer must obtain written permission from the District Engineer prior to making any plan or field change.

4.2.4 Final Inspection

- A. The final inspection will be performed when all items on the signed plans and related specifications are complete. This will be at the end of the project after all paving, sidewalks, barricade, Street lights, and etc. have been completed.

- B. A punch list of incomplete items will be provided by the Inspector. When these items are cleared, and before final acceptance, the City's Inspector and the District's Operations Superintendent will make a final inspection of all work, accompanied by the Contractor's Superintendent or Foreman, to verify that:
1. All phases of the job are complete in accordance with plans and specifications.
 2. Valve boxes are raised to finish grade and that all repairing is complete.
 3. Angle meter stops, meters, and customer service valves are properly positioned and all meter boxes are positioned and raised to proper grade and meters installed.
 4. Backfill has passed all compaction testing.
 5. Appropriate valves are fully open.
 6. Line pressure testing and disinfection has been completed.
 7. The jobsite is clean and cleared of all the Contractor's equipment and materials.

4.3 WATER SERVICE PRIOR TO ACCEPTANCE

City Inspector may approve putting newly installed water lines into service after compaction has been approved by the governing agency and the portions have been pressure tested and disinfected. This partial acceptance shall be granted only upon written request from the Developer and subsequent approval by the City Engineer or his designated representative. Nothing in this section shall be construed as relieving the Developer of full responsibility for completing the work in its entirety, for making good any defective work and materials, for protecting the work from damage, and for being responsible for damage and for work as set forth in the agreement and other contractual documents; nor shall such action by the District be deemed completion and acceptance, and such action shall not relieve the Developer of the guarantee provisions of his Agreement with the District.